

856 Ship Notice/Manifest

Functional Group ID=**SH**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Notes:

- 1. Organizations use this transaction set to provide shipment availability, specification and content information to designated Country Representatives/Freight Forwarders (CR/FF).**
- 2. Department of Defense (DoD) distinguishes among Foreign Military Sales (FMS) Notices of Availability (NOA) requiring export release authorization, those not requiring export release authorization, and those for which release will be delayed.**
- 3. Use a single occurrence of this transaction set to transmit single or multiple NOAs to one designated CR/FF.**
- 4. Identify the overall shipment attributes and detailed line item content of each shipment.**
- 5. Users operating under the Defense Logistics Management System (DLMS) must reference the Unit of Issue and Purchase Unit Conversion Table, Transportation Mode of Shipment Conversion Tables, Type of Pack Conversion Table and Accounting Classification Appendix which can be found on the National Institute of Standards and Technology (NIST) World Wide Web site.**

Heading:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BSN	Beginning Segment for Ship Notice	M	1		
Not Used	040	DTM	Date/Time Reference	O	10		

Detail:

856N - Ship Notice/Manifest (Notice of Availability)

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL			200000	
Must Use	010	HL	Hierarchical Level	M	1		c1
	020	LIN	Item Identification	O	1		
	030	SN1	Item Detail (Shipment)	O	1		
Not Used	040	SLN	Subline Item Detail	O	1000		
Not Used	050	PRF	Purchase Order Reference	O	1		
Not Used	060	PO4	Item Physical Details	O	1		
Not Used	070	PID	Product/Item Description	O	200		
	080	MEA	Measurements	O	40		
Not Used	090	PWK	Paperwork	O	25		
Not Used	100	PKG	Marking, Packaging, Loading	O	25		
	110	TD1	Carrier Details (Quantity and Weight)	O	20		
	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
Not Used	130	TD3	Carrier Details (Equipment)	O	12		
Not Used	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
	150	REF	Reference Identification	O	>1		
Not Used	151	PER	Administrative Communications Contact	O	3		
			LOOP ID - LH1			100	
Not Used	152	LH1	Hazardous Identification Information	O	1		
Not Used	153	LH2	Hazardous Classification Information	O	4		
Not Used	154	LH3	Hazardous Material Shipping Name	O	12		
Not Used	155	LFH	Freeform Hazardous Material Information	O	20		
Not Used	156	LEP	EPA Required Data	O	3		
Not Used	157	LH4	Canadian Dangerous Requirements	O	1		
Not Used	158	LHT	Transborder Hazardous Requirements	O	3		
Not Used	159	LHR	Hazardous Material Identifying Reference Numbers	O	10		
Not Used	160	PER	Administrative Communications Contact	O	5		
Not Used	161	LHE	Empty Equipment Hazardous Material Information	O	1		
			LOOP ID - CLD			200	
Not Used	170	CLD	Load Detail	O	1		
Not Used	180	REF	Reference Identification	O	200		
Not Used	185	DTP	Date or Time or Period	O	1		
Not Used	190	MAN	Marks and Numbers	O	>1		
	200	DTM	Date/Time Reference	O	10		
Not Used	210	FOB	F.O.B. Related Instructions	O	1		
Not Used	215	PAL	Pallet Information	O	1		
			LOOP ID - N1			200	
	220	N1	Name	O	1		
Not Used	230	N2	Additional Name Information	O	2		
Not Used	240	N3	Address Information	O	2		
Not Used	250	N4	Geographic Location	O	1		
Not Used	260	REF	Reference Identification	O	12		

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Not Used	270	PER	Administrative Communications Contact	O	3
Not Used	280	FOB	F.O.B. Related Instructions	O	1
Not Used	290	SDQ	Destination Quantity	O	50
Not Used	300	ETD	Excess Transportation Detail	O	1
Not Used	310	CUR	Currency	O	1
Not Used	320	SAC	Service, Promotion, Allowance, or Charge Information	O	>1
Not Used	330	GF	Furnished Goods and Services	O	1
Not Used	335	YNQ	Yes/No Question	O	10
LOOP ID - LM					10
Must Use	340	LM	Code Source Information	O	1
Must Use	350	LQ	Industry Code	M	100
LOOP ID - V1					>1
Not Used	360	V1	Vessel Identification	O	1
Not Used	370	R4	Port	O	>1
Not Used	380	DTM	Date/Time Reference	O	>1

Summary:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
Not Used	010	CTT	Transaction Totals	O	1		n1
Must Use	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Transaction Set Comments

1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use ST01	143	Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set	
		856 X12.10 Ship Notice/Manifest	
Must Use ST02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
		<i>A unique number assigned by the originator of the transaction set, or the originator's application program.</i>	

Segment: **BSN** Beginning Segment for Ship Notice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes: 1 If BSN07 is present, then BSN06 is required.
Semantic Notes: 1 BSN03 is the date the shipment transaction set is created.
2 BSN04 is the time the shipment transaction set is created.
3 BSN06 is limited to shipment related codes.
Comments: 1 BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
Must Use BSN01	353	Transaction Set Purpose Code	M	ID 2/2
		Code identifying purpose of transaction set		
		00	Original	
		77	Simulation Exercise	
		Use to identify a simulated mobilization exercise transaction set. Activities initiating simulated mobilization exercises must ensure complete coordination with all activities involved. All transaction set recipients must use extreme caution to ensure that individual transactions do not process as action documents which affect accountable records.		
Must Use BSN02	396	Shipment Identification	M	AN 2/30
		A unique control number assigned by the original shipper to identify a specific shipment		
		Use Code "ZZ" for this data element to satisfy mandatory X12 Syntax requirements..		
Must Use BSN03	373	Date	M	DT 6/6
		Date (YYMMDD)		
		This date corresponds to the Universal Time Coordinate (UTC).		
Must Use BSN04	337	Time	M	TM 4/8
		Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
		1. Express the originating activity's time in UTC.		

2. Express time in a four-position (HHMM) format.

Not Used BSN05 1005 Hierarchical Structure Code O ID 4/4
 Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set

Must Use BSN06 640 Transaction Type Code X ID 2/2
 Code specifying the type of transaction
 AD Notice of Availability
 Notification by a U.S. shipping organization that a foreign military sales shipment is available for delivery

Must Use BSN07 641 Status Reason Code O ID 3/3
 Code indicating the status reason

Use to identify the type of NOA.

D50 Delayed

Use to indicate that all referenced shipments are delayed.

ENR

Export Release Not Required

The foreign military sales (FMS) shipment for which this Notice of Availability is provided will not require an Export Release

Use to indicate that export release is not required for all referenced shipments.

ERR

Export Release Required

The foreign military sales (FMS) shipment for which this Notice of Availability is provided will require that an Export Release be obtained

Use to indicate that export release is required for all referenced shipments.

Segment: **HL** Hierarchical Level
Position: 010
Loop: HL
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:**Semantic Notes:**

- Comments:**
- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
 - 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
 - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
 - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

- Notes:**
1. *The transaction set hierarchical data structure is address information, followed by overall shipment attributes, followed by shipment line item detail.*
 2. *Use the first 2/HL/010 loop iteration to provide transaction set address information.*
 3. *Use a single or multiple 2/HL/010 shipment loop iterations to identify the attributes associated with a single FMS notice number assigned to control the shipment.*
 4. *Use a single or multiple 2/HL/010 line item loop iterations to identify the line item detail associated with each shipment.*

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
Must Use HL01	628 Hierarchical ID Number	M AN 1/12

A unique number assigned by the sender to identify a particular data segment in a hierarchical structure

In the first 2/HL/010 loop iteration, cite numeric 1. In each subsequent

		<i>loop iteration, increase incrementally by 1.</i>	
HL02	734	Hierarchical Parent ID Number	O AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
		<i>1. Use for each 2/HL/010 line item loop iteration to identify the shipment loop associated with each line item.</i>	
		<i>2. Data element content is the sequential number assigned to the 2/HL/010 shipment loop iteration and serves as the cross-reference between the shipment and all line items contained in the shipment.</i>	
Must Use HL03	735	Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		I	Item
		<i>Use to identify the individual line item loops.</i>	
		S	Shipment
		<i>Use to identify the individual shipment loops.</i>	
		V	Address Information
		The HL loop will identify entities associated with the shipment notice transaction	
		<i>Use to identify the transaction set address loop.</i>	
Not Used HL04	736	Hierarchical Child Code	O ID 1/1
		Code indicating if there are hierarchical child data segments subordinate to the level being described	

Segment:	LIN Item Identification
Position:	020
Loop:	HL
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify basic item identification data
Syntax Notes:	<ol style="list-style-type: none"> 1 If either LIN04 or LIN05 is present, then the other is required. 2 If either LIN06 or LIN07 is present, then the other is required. 3 If either LIN08 or LIN09 is present, then the other is required. 4 If either LIN10 or LIN11 is present, then the other is required. 5 If either LIN12 or LIN13 is present, then the other is required. 6 If either LIN14 or LIN15 is present, then the other is required. 7 If either LIN16 or LIN17 is present, then the other is required. 8 If either LIN18 or LIN19 is present, then the other is required. 9 If either LIN20 or LIN21 is present, then the other is required. 10 If either LIN22 or LIN23 is present, then the other is required. 11 If either LIN24 or LIN25 is present, then the other is required. 12 If either LIN26 or LIN27 is present, then the other is required. 13 If either LIN28 or LIN29 is present, then the other is required. 14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:	1 LIN01 is the line item identification
Comments:	<ol style="list-style-type: none"> 1 See the Data Dictionary for a complete list of IDs. 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
Notes:	<i>Must use only in 2/HL/010 line item loops to identify the material included in the shipment.</i>

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Not Used LIN01	350	Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
Must Use LIN02	235	Product/Service ID Qualifier	M ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		<i>Use only one of codes A1, A2, A4, FB, FS, FT, MG, or YP to identify the material shipped. Must use National Stock Number (NSN) when known.</i>	
	A1	Plant Equipment Number	
		Item identifier is a plant equipment number	
		<i>Use to identify plant equipment.</i>	
	A2	Department of Defense Identification Code (DoDIC)	

				Qualifies a code that uniquely identifies a type of explosive or ammunition
				<i>Use to identify ammunition items.</i>
		A4		Subsistence Identification Number
				Item identifier is a brand-name resale subsistence item
				<i>Use to identify subsistence items.</i>
		FB		Form Number
				<i>Use to identify the form stock number.</i>
		FS		National Stock Number
				<i>Must use NSN when known.</i>
		FT		Federal Supply Classification
				<i>Use to identify nonstandard material when a part number is not available and material requisitioned was identified by description (e.g., non-NSN lumber products).</i>
		MG		Manufacturer's Part Number
				<i>Use to identify nonstandard material.</i>
		YP		Publication Number
				<i>Use to identify the publication stock number.</i>
Must Use	LIN03	234	Product/Service ID	M AN 1/40
				Identifying number for a product or service
	LIN04	235	Product/Service ID Qualifier	X ID 2/2
				Code identifying the type/source of the descriptive number used in Product/Service ID (234)
		CN		Commodity Name
				<i>Use with LIN02 code FT to identify the material name or description.</i>
		ZB		Commercial and Government Entity (CAGE) Code
				A code that identifies a commercial contractor authorized to do business with the U.S. government
				<i>Use with LIN02 code MG to uniquely identify a manufacturer's part number.</i>
	LIN05	234	Product/Service ID	X AN 1/40
				Identifying number for a product or service
Not Used	LIN06	235	Product/Service ID Qualifier	X ID 2/2
				Code identifying the type/source of the descriptive number used in Product/Service ID (234)
Not Used	LIN07	234	Product/Service ID	X AN 1/40
				Identifying number for a product or service
Not Used	LIN08	235	Product/Service ID Qualifier	X ID 2/2
				Code identifying the type/source of the descriptive number used in

			Product/Service ID (234)		
Not Used	LIN09	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN10	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN11	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN12	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN13	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN14	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN15	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN16	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN17	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN18	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN19	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN20	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN21	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN22	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN23	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN24	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN25	234	Product/Service ID	X	AN 1/40

			Identifying number for a product or service		
Not Used	LIN26	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN27	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN28	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN29	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		
Not Used	LIN30	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	LIN31	234	Product/Service ID	X	AN 1/40
			Identifying number for a product or service		

Segment:	SN1 Item Detail (Shipment)
Position:	030
Loop:	HL
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify line-item detail relative to shipment
Syntax Notes:	1 If either SN105 or SN106 is present, then the other is required.
Semantic Notes:	1 SN101 is the ship notice line-item identification.
Comments:	1 SN103 defines the unit of measurement for both SN102 and SN104.
Notes:	<i>Must use only in 2/HL/010 line item loops to identify the number of units associated with each transaction.</i>

Data Element Summary

Ref.	Data	Element	Name	Attributes
Not Used	SN101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
Must Use	SN102	382	Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set <i>1. Use to identify the quantity associated with the individual transaction.</i> <i>2. Express as a whole number with no decimals.</i>	M R 1/10
Must Use	SN103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <i>Use to identify the unit of issue for the material. DLMS users see the Unit of Issue and Purchase Unit Conversion Table.</i>	M ID 2/2
Not Used	SN104	646	Quantity Shipped to Date Number of units shipped to date	O R 1/9
Not Used	SN105	330	Quantity Ordered Quantity ordered	X R 1/9
Not Used	SN106	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X ID 2/2
Not Used	SN107	728	Returnable Container Load Make-Up Code Code identifying the load make-up of the returnable containers in the shipment	O ID 1/2
Not Used	SN108	668	Line Item Status Code Code specifying the action taken by the seller on a line item requested by the buyer	O ID 2/2

Segment: **MEA** Measurements
Position: 080
Loop: HL
Level: Detail
Usage: Optional
Max Use: 40
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Syntax Notes:

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments: 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes: *Use only in 2/HL/010 shipment loops. Use two repetitions to identify shipment, weight and cube.*

Data Element Summary

Ref.	Des.	Data Element	Name	Attributes
Not Used	MEA01	737	Measurement Reference ID Code	O ID 2/2
			Code identifying the broad category to which a measurement applies	
Must Use	MEA02	738	Measurement Qualifier	O ID 1/3
			Code identifying a specific product or process characteristic to which a measurement applies	
		A	Consolidated Weight	
			<i>Use with code LB in MEA04-01, to identify the shipment weight in pounds.</i>	
		UCB	Cube	
			The external cubic dimensions of a specified product	
			<i>Use with code CF in MEA04-01 to identify the shipment cubic size (volume) expressed as cubic feet.</i>	
Must Use	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	
			<i>Use to identify the actual number of pounds, pieces, or cubic feet, associated with the shipment based on the coding in MEA02 and MEA04-01.</i>	
Must Use	MEA04	C001	Composite Unit of Measure	X
			To identify a composite unit of measure (See Figures Appendix for examples of use)	

Must Use	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		CF	Cubic Feet	
			<i>Use with code UCB in MEA02 to indicate that the shipment cube is expressed as cubic feet.</i>	
		LB	Pound	
			<i>Use with code A in MEA02 to indicate that the shipment weight is expressed as pounds.</i>	
Not Used	C00102	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00103	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00104	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00105	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00106	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00107	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00108	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00109	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00110	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00111	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00112	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00113	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00114	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00115	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	

Not Used	MEA05	740	Range Minimum	X	R 1/20
The value specifying the minimum of the measurement range					
Not Used	MEA06	741	Range Maximum	X	R 1/20
The value specifying the maximum of the measurement range					
Not Used	MEA07	935	Measurement Significance Code	O	ID 2/2
Code used to benchmark, qualify or further define a measurement value					
Not Used	MEA08	936	Measurement Attribute Code	X	ID 2/2
Code used to express an attribute response when a numeric measurement value cannot be determined					
Not Used	MEA09	752	Surface/Layer/Position Code	O	ID 2/2
Code indicating the product surface, layer or position that is being described					
Not Used	MEA10	1373	Measurement Method or Device	O	ID 2/4
The method or device used to record the measurement					

Segment: **TD1** **Carrier Details (Quantity and Weight)**
Position: 110
Loop: HL
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:

- 1 If TD101 is present, then TD102 is required.
- 2 If TD103 is present, then TD104 is required.
- 3 If TD106 is present, then TD107 is required.
- 4 If either TD107 or TD108 is present, then the other is required.
- 5 If either TD109 or TD110 is present, then the other is required.

Semantic Notes:**Comments:**

Notes: *Use only in 2/HL/010 shipment loops.*

Data Element Summary

Ref.	Des.	Data Element	Name	Attributes
TD101		103	Packaging Code	O AN 3/5
			Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material	
			<i>Use to identify the shipment unit type pack. DLMS users see the Type of Pack Conversion Table for available codes.</i>	
Must Use	TD102	80	Lading Quantity	X N0 1/7
			Number of units (pieces) of the lading commodity	
			<i>Use to identify the number of physical units (pieces) in the shipment.</i>	
Not Used	TD103	23	Commodity Code Qualifier	O ID 1/1
			Code identifying the commodity coding system used for Commodity Code	
Not Used	TD104	22	Commodity Code	X AN 1/30
			Code describing a commodity or group of commodities	
Not Used	TD105	79	Lading Description	O AN 1/50
			Description of an item as required for rating and billing purposes	
Not Used	TD106	187	Weight Qualifier	O ID 1/2
			Code defining the type of weight	
Not Used	TD107	81	Weight	X R 1/10
			Numeric value of weight	
Not Used	TD108	355	Unit or Basis for Measurement Code	X ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	TD109	183	Volume	X R 1/8
			Value of volumetric measure	
Not Used	TD110	355	Unit or Basis for Measurement Code	X ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Segment:	TD5 Carrier Details (Routing Sequence/Transit Time)
Position:	120
Loop:	HL
Level:	Detail
Usage:	Optional
Max Use:	12
Purpose:	To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required. 2 If TD502 is present, then TD503 is required. 3 If TD507 is present, then TD508 is required. 4 If TD510 is present, then TD511 is required. 5 If TD513 is present, then TD512 is required. 6 If TD514 is present, then TD513 is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.
Notes:	<i>Use only in 2/HL/010 shipment loops to identify the intended mode of shipment between the shipping activity and designated consignee.</i>

Data Element Summary

Ref.	Des.	Data Element	Name	Attributes
Not Used	TD501	133	Routing Sequence Code	O ID 1/2
			Code describing the relationship of a carrier to a specific shipment movement	
Not Used	TD502	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
Not Used	TD503	67	Identification Code	X AN 2/20
			Code identifying a party or other code	
Must Use	TD504	91	Transportation Method/Type Code	X ID 1/2
			Code specifying the method or type of transportation for the shipment	
			<i>Use to identify the mode of shipment code. DLMS users see the Transportation Mode of Shipment Conversion Table for available codes.</i>	
Not Used	TD505	387	Routing	X AN 1/35
			Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	
Not Used	TD506	368	Shipment/Order Status Code	X ID 2/2
			Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction	
Not Used	TD507	309	Location Qualifier	O ID 1/2

			Code identifying type of location		
Not Used	TD508	310	Location Identifier	X	AN 1/30
			Code which identifies a specific location		
Not Used	TD509	731	Transit Direction Code	O	ID 2/2
			The point of origin and point of direction		
Not Used	TD510	732	Transit Time Direction Qualifier	O	ID 2/2
			Code specifying the value of time used to measure the transit time		
Not Used	TD511	733	Transit Time	X	R 1/4
			The numeric amount of transit time		
Not Used	TD512	284	Service Level Code	X	ID 2/2
			Code indicating the level of transportation service or the billing service offered by the transportation carrier		
Not Used	TD513	284	Service Level Code	X	ID 2/2
			Code indicating the level of transportation service or the billing service offered by the transportation carrier		
Not Used	TD514	284	Service Level Code	O	ID 2/2
			Code indicating the level of transportation service or the billing service offered by the transportation carrier		

Segment:	REF Reference Identification
Position:	150
Loop:	HL
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify identifying information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of REF02 or REF03 is required. 2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 REF04 contains data relating to the value cited in REF02.
Comments:	
Notes:	<p><i>1. Use in 2/HL/010 shipment loops to indicate the number of line items included in the shipment and the FMS Notice Number identification number controlling the shipment.</i></p> <p><i>2. Use in 2/HL/010 line item loops to identify the customer assigned transaction number and unique item tracking (UIT) information when the item identified in 2/LIN/020 is subject to tracking under a UIT requirement.</i></p>

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
Must Use REF01	128 Reference Identification Qualifier	M ID 2/3
	Code qualifying the Reference Identification	
	<i>Use only one of codes BT, LT or SE, as needed, to identify batch numbers, lot numbers or unique item identifiers (UIT) assigned to material managed under UIT procedures.</i>	
	BT	Batch Number
		<i>Use as needed to identify the manufacturer's batch number or other number identifying the production run.</i>
	K1	Foreign Military Sales Notice Number
		Number assigned to control a foreign military sales shipment from shipper to consignee
		<i>Must use only in 2/HL/010 shipment loops to identify the number assigned to control the shipment between the shipper and consignee.</i>
	LO	Load Planning Number
		<i>Use in 2/HL/010 shipment loops to identify the number of transactions included in the shipment.</i>
	LT	Lot Number
		<i>Use to identify the manufacturer's lot number.</i>
	SE	Serial Number

			<i>Use to identify a UII.</i>	
			TN	Transaction Reference Number
			<i>Must use in every 2/HL/010 line item loop to identify the customer assigned transaction number for the requisition associated with the shipment unit.</i>	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	REF03	352	Description	X AN 1/80
			A free-form description to clarify the related data elements and their content	
	REF04	C040	Reference Identifier	O
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	
Must Use	C04001	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			W8	Suffix
			Differentiates between partial actions taken on the original transaction	
			<i>Use with REF01 code TN to identify the transaction number suffix.</i>	
Must Use	C04002	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	C04003	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
Not Used	C04004	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	C04005	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
Not Used	C04006	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: DTM Date/Time Reference**Position:** 200**Loop:** HL**Level:** Detail**Usage:** Optional**Max Use:** 10**Purpose:** To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM06 is required.
 - 2 If either DTM06 or DTM07 is present, then the other is required.

Semantic Notes:**Comments:**

Notes: *Use in 2/HL/010 shipment and line item loops to identify dates associated with the NOA.*

Data Element Summary

Ref.	Data	Element	Name	Attributes
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
		169	Product Availability Date	
			<i>Use in every 2/HL/010 shipment loop to identify the NOA preparation date.</i>	
		601	First Submission	
			<i>Use in the shipment loop to identify the original NOA preparation date when the original NOA contained items which the customer rejected.</i>	
Must Use	DTM02	373	Date	X DT 6/6
			Date (YYMMDD)	
Not Used	DTM03	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
Not Used	DTM04	623	Time Code	O ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	
	DTM05	624	Century	O N0 2/2
			The first two characters in the designation of the year (CCYY)	
Not Used	DTM06	1250	Date Time Period Format Qualifier	X ID 2/3
			Code indicating the date format, time format, or date and time format	

Not Used	DTM07	1251	Date Time Period	X	AN 1/35
Expression of a date, a time, or range of dates, times or dates and times					

Segment:	N1 Name
Position:	220
Loop:	N1
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. 2 N105 and N106 further define the type of entity in N101.
Notes:	<i>Use the 2/N1/220 loop in the 2/HL/010 address loop to identify the organization originating the transaction set and the organization to receive the transaction set.</i>

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
Must Use N101	98	Entity Identifier Code	M	ID 2/2
		Code identifying an organizational entity, a physical location, or an individual		
		<i>Use only one of codes 98 or CY.</i>		
	98	Freight Management Facilitator		
		Organization and/or individual responsible for the monitoring and management of freight services		
		<i>Use to identify the designated FF to receive the transaction set.</i>		
	CI	Consignor		
		<i>Use as needed to identify the shipping activity.</i>		
	CY	Country		
		<i>Use to identify the designated CR to receive the transaction set.</i>		
Not Used N102	93	Name	X	AN 1/35
		Free-form name		
Must Use N103	66	Identification Code Qualifier	X	ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)		
	1	D-U-N-S Number, Dun & Bradstreet		
	9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
	10	Department of Defense Activity Address Code (DODAAC)		

		M4	Department of Defense Routing Identifier Code (RIC) An integral and predetermined participant in an established logistical system performing general logistic control, distribution, and storage functions		
Must Use	N104	67	Identification Code Code identifying a party or other code	X	AN 2/20
Not Used	N105	706	Entity Relationship Code Code describing entity relationship	O	ID 2/2
Must Use	N106	98	Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual	O	ID 2/2
		FR	Message From <i>Must use with 2/N101/220 code CI to indicate that the organization cited in N104 is originating the transaction set.</i>		
		TO	Message To <i>Must use with 2/N101/220 codes CY and 98 to indicate that the organization cited in N104 is receiving the transaction set.</i>		

Segment: **LM** **Code Source Information**
Position: 340
Loop: LM
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To transmit standard code list identification information
Syntax Notes:
Semantic Notes:
Comments: 1 LM02 identifies the applicable industry code list source information.
Notes: *Must use this 2/LM/340 loop to identify coded information maintained in department or agency documentation.*

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
Must Use LM01	559	Agency Qualifier Code	M	ID 2/2
		Code identifying the agency assigning the code values		
		DF Department of Defense (DoD)		
Not Used LM02	822	Source Subqualifier	O	AN 1/15
		A reference that indicates the table or text maintained by the Source Qualifier		

Segment: **LQ** Industry Code
Position: 350
Loop: LM
Level: Detail
Usage: Mandatory
Max Use: 100
Purpose: Code to transmit standard industry codes
Syntax Notes: 1 If LQ01 is present, then LQ02 is required.
Semantic Notes:
Comments:
Notes: *Use to identify codes consistent with management information requirements.*

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use LQ01	1270	Code List Qualifier Code	O ID 1/3
		Code identifying a specific industry code list	
		<i>1. Use codes 33, 34, 35, and 69 only in 2/HL/010 shipment loops.</i>	
		<i>2. Use codes 0, 71, 78, 95, A4, A5, A6, A9, BD, and DF only in 2/HL/010 line item loops.</i>	
	0	Document Identification Code	
		Codes that subclassify a transaction	
	33	Air Commodity and Special Handling Code	
		An air commodity and its special handling requirements	
		<i>Use for air shipments to identify material manifesting, customs, and special handling or reporting requirements.</i>	
	34	Water Commodity and Special Handling Code	
		A water commodity and its special handling requirements	
		<i>Use for water shipments to identify the predominant commodity within the shipment unit for ocean manifesting.</i>	
	35	Air Dimension Code	
		A shipment has one or more outsized dimensions, or is consolidated, or both	
		<i>Use for air shipments.</i>	
	69	Foreign Military Sales Country Code	
		Foreign countries	
		<i>Use to identify the FMS country.</i>	
	71	Service and Agency Code	

	<p>Military services, defense agencies, and certain civilian agencies of the United States Government</p> <p><i>Must use in FMS transactions to identify the customer country's requisitioning Service code: B, D, K, P, or T.</i></p>
78	<p>Project Code</p> <p>Codes that relate a transaction to special programs, exercises, projects, operations, or other purposes</p> <p><i>Use to identify the special programs, exercises, project, operation, and other purposes.</i></p>
95	<p>Offer and Release Option Code</p> <p>Allows countries participating in the Foreign Military Sales Program to advise supply sources whether or not prior notice to country representatives or freight forwarders is required before shipment</p> <p><i>Use to identify the offer and release option code.</i></p>
A4	<p>Case Designator Number</p> <p>The case that a Foreign Military Sales transaction supports</p> <p><i>Must use in FMS transactions to identify the FMS case number. For Cooperative Logistics Supply Support Agreements (CLSSAs), repeat up to two times to identify the Foreign Military Sales Order (FMSO) I and FMSO II case numbers. In this instance, the first occurrence will cite the FMSO I case number, and a second occurrence, if applicable, will reflect the FMSO II case number.</i></p>
A5	<p>Subcase Number</p> <p>The line item or subcase that a Foreign Military Sales transaction supports</p> <p><i>Use in FMS transactions based on Service requirements.</i></p>
A6	<p>Freight Forwarder Number</p> <p>Representatives designated by a country to accomplish or control shipments of Foreign Military Sales material</p> <p><i>Use to identify the CR/FF to receive shipments and documentation.</i></p>
A9	<p>Supplementary Address</p> <p>Identifies the originating organization's unique logistics information</p>
BD	<p>Transportation Priority Code</p> <p>Indicates the order of handling and the recommended method of material movement</p>

Use to identify the transportation priority.

		DF	Media and Status Code		
Must Use	LQ02	1271	Industry Code	X	AN 1/30
			Code indicating a code from a specific industry code list		

Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:**Semantic Notes:**

Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	Ref. Des.	Data		<u>Attributes</u>
		<u>Element</u>	<u>Name</u>	
Must Use	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			<i>Cite the same number as the one cited in ST02.</i>	